

Title (en)

CURRENT SENSOR AND DEVICE FOR MEASURING AN ELECTRICAL CURRENT

Title (de)

STROMSENSOR UND VORRICHTUNG ZUM MESSEN EINES ELEKTRISCHEN STROMS

Title (fr)

CAPTEUR DE COURANT ET DISPOSITIF POUR LA MESURE D'UN COURANT ÉLECTRIQUE

Publication

EP 3171182 B1 20180131 (FR)

Application

EP 16198122 A 20161110

Priority

FR 1561228 A 20151123

Abstract (en)

[origin: US2017146572A1] A current sensor of Rogowski type including two layers of coils surrounding a current conductor, each layer of coils including a plurality of windings wound on a plurality of axes forming the contour of polygons of identical forms, arranged on parallel planes, and placed facing one another such that each corner zone of the first polygon is situated facing a corresponding corner zone of the second polygon and such that, in each corner zone, turns of the winding of the first layer of coils have different orientations from those of the turns of the winding of the second layer of coils in the facing corner zone.

IPC 8 full level

G01R 15/18 (2006.01); **G01R 19/00** (2006.01); **G01R 21/00** (2006.01); **G05B 11/01** (2006.01); **H02H 3/08** (2006.01)

CPC (source: CN EP RU US)

G01R 15/181 (2013.01 - CN EP RU US); **G01R 19/0092** (2013.01 - US); **G01R 21/00** (2013.01 - US); **G01R 21/133** (2013.01 - CN); **G05B 11/01** (2013.01 - US); **H02H 3/08** (2013.01 - US)

Cited by

FR3109637A1; WO2021214211A1; EP3499248A1; FR3075387A1; CN109959814A; EP3561523A1; FR3080685A1; US10732207B2; WO2024133378A1; FR3144300A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3171182 A1 20170524; **EP 3171182 B1 20180131**; BR 102016026326 A2 20170530; BR 102016026326 B1 20230228; CN 107037251 A 20170811; CN 107037251 B 20201030; FR 3044096 A1 20170526; FR 3044096 B1 20171201; RU 2016144165 A 20180510; RU 2016144165 A3 20200124; RU 2719794 C2 20200423; US 10416196 B2 20190917; US 2017146572 A1 20170525

DOCDB simple family (application)

EP 16198122 A 20161110; BR 102016026326 A 20161110; CN 201611042266 A 20161123; FR 1561228 A 20151123; RU 2016144165 A 20161110; US 201615341614 A 20161102